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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,811		02/09/2004	Mitsuaki Oshima	2004_0205	2004_0205 4466	
513	7590	05/09/2006		EXAM	EXAMINER	
	-	ND & PONACK, L	HA, D	HA, DAC V		
2033 K STF SUITE 800	KEET N. V	٧.		ART UNIT PAPER NUMBER		
WASHINGTON, DC 20006-1021				2611	<u></u>	

DATE MAILED: 05/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	8				
	10/773,811	OSHIMA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Dac V. Ha	2611					
The MAILING DATE of this communication app Period for Reply	ears on the coversheet with the c	orrespondence addr	9SS				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this comr D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 05 Ap	<u>oril 2006</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.						
	,						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) ☐ Claim(s) 13-18 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 13-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order order of the o	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on Noed in this National St	age				
Attachment(s)	_						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>04/05/06</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	ite	52)				

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DETAILED ACTION

1. This is in response to the Response filed on 04/05/06.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 13-18 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 42-47 of copending Application No. 09/680,177 in view of Basile et al. (US 5,134,464) (hereafter Basile) and Nishizawa et al. (US 5,063,445) (hereafter Nishizawa). Even though the copending Application 09/680,177 does not disclose the use of VSB modulated signal and QAM modulated signal in terrestrial broadcasting and cable television, respectively, Basile and Nishizawa disclose that such preferred utilization is known in the art.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basile in view of Nishizawa.

Basile discloses the claimed subject matter in claims 13-18 including the use of QAM for both terrestrial and cable channels (col. 2, lines 49-57). Nishizawa, in the same field of endeavor, discloses use of VSB for terrestrial channel (col. 20, lines 26-50). The conversion to low frequency and demodulate the respective signal at the receiver is rather conventional to one skilled in the art.

Response to Arguments

6. Applicant's arguments filed on 04/05/06 have been fully considered but they are not persuasive.

In the REMARKS filed on 04/05/06, applicant has essentially argued that the combination of Basile and Nishizawa does not teach "... a single mixer operable to convert a VSB modulation signal to a low frequency signal of the VSB modulated signal and to convert a QAM modulation signal to a low frequency signal of the QAM modulated signal ..." However, it would have been within the desire of one skilled in the art to try to improve the existing infrastructure, yet without disregarding the benefit of the existing system (i.e. economic reason). Thus, one skilled in the art would have desired

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to utilize the single mixer for down mixing the different modulated signal, and this could have been done, i.e. by controlling the down converting frequency of the mixer.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-3086. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dac V. Ha Primary Examiner Art Unit 2611